Programmieren Tutorium 5 – Aufgabe

Institut für Zeritfizierbare und Vertrauenswürdige Informatiksysteme (ZVI)

Inhalt

Aufgabe

Tipps

```
img.getMinY();
img.getHeight();
new Color(img.getRGB(x, y));
img.setRGB(x, y, color.getRGB());
```

```
for each y from top to bottom
   for each x from left to right
      oldpixel := pixel[x][y]
      newpixel := find_closest_palette_color(oldpixel)
      pixel[x][y] := newpixel
      quant_error := oldpixel - newpixel
      pixel[x+1][y] := pixel[x+1][y] + 7/16 * quant_error
      pixel[x-1][y+1] := pixel[x-1][y+1] + 3/16 * quant_error
      pixel[x][y+1] := pixel[x][y+1] + 5/16 * quant_error
      pixel[x+1][y+1] := pixel[x+1][y+1] + 1/16 * quant_error
```